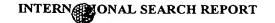


PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FP04026	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/KR 2004/001147	(Earliest) Priority Date (day/month/year) 30 May 2003 (30.05.2003)	International filing date (day/month/year) 14 May 2004 (14.05.2004)
Applicant	LG ELECTRONICS, INC.	
This international search report has been according to Article 18. A copy is being	prepared by this International Searching A transmitted to the International Bureau.	uthority and is transmitted to the applicant
This international search report consists It is also accompanied by	of a total of 4 sheets. a copy of each prior art document cited in t	his report.
	international search was carried out on the lates otherwise indicated under this item.	pasis of the international application in the
The international to this Authority		nslation of the international application furnished
b. With regard to any nucleotic	de and/or amino acid sequence disclosed i	n the international application, see continuation of this first sheet.
2. Certain claims were four	nd unsearchable (see continuation of this f	irst sheet)
3. Unity of invention is lack4. With regard to the title,	ting (see continuation of this first sheet)	
the text is approved as sub	omitted by the applicant.	
the text has been establish	ed by this Authority to read as follows:	
5. With regard to the abstract, the text is approved as su		Mo. 并全个 2015. 4. 1.8 可是沿于湖岸村 设置不过是村
	ned, according to Rule 38.2(b), by this Auth, within one month from the date of mailing ity.	
as suggested by the applicance as selected by this Author	published with the abstract is Figure Nocant. rity, because the applicant failed to suggest rity, because this figure better characterizes	a figure.
b. none of the figures is to be		



Continuation of first sheet

20/558434AP16 Rec'd PCT/PTO 29 NOV 2005

Continuation No. IV:

Text of the abstract

(Continuation of item 5 of the first sheet)

The present invention discloses a home network system using a living network control protocol. The home network system includes: a network based on a predetermined protocol; at least one electric device connected to the network; and a network manager connected to the network, for controlling and/or monitoring the electric device, wherein the protocol includes an application layer (60) for handling a message for controlling and monitoring the electric device, a network layer (70) for network-connecting the electric device to the network manager, a data link layer (80) for accessing a shared transmission medium, and a physical layer (90) for providing a physical interface between the electric device and the network manager, wherein the physical layer (90) further includes a special protocol for providing an interface with a dependent transmission medium, and the network layer (70) further includes a home code control sub-layer (71) for managing a home code for network security when accessing the dependent transmission medium.

A. CLASSIFICATION OF SUBJECT MATTER IPC7: H04L 12/26, 12/46, 29/06 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC7: H04L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC, PAJ, Elsevier, IEE, I3E, IEEEXplore C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category* 1-49 Koon-Seok Lee, Hoan-Jong Choi, Chang-Ho Kim, Seung-Myun X Baek,'A new control protocol for home appliances-LnCP.' In: International Symposium on Industrial Electronics, 2001. Proceedings. ISIE 2001. 12-16 June 2001 pages: 286 - 291 volume 1 Yi-Min Wang; Russel, W.; Arora, A.; JunXu; Jagannatthan, R.K.; 1-49 X 'Towards dependable home networking: an experience report.' In: Proceedings International Conference on Dependable Systems and Networks, 2000. DSN 200025 - 28 June 2000, Los Alamitos, CA, USA, IEEE Computer Society pages: 43 - 48 See patent family annex. ☐ Further documents are listed in the continuation of Box C. "T" later document published after the international filing date or Special categories of cited documents: priority date and not in conflict with the application but cited "A" document defining the general state of the art which is not considered to understand the principle or theory underlying the invention to be of particular relevance "X" document of particular relevance, the claimed invention earlier application or patent but published on or after the international cannot be considered novel or cannot be considered to involve filing date an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is "Y" document of particular relevance; the claimed invention cited to establish the publication date of another citation or other cannot be considered to involve an inventive step when the special reason (as specified) document is combined with one or more other such "O" document referring to an oral disclosure, use, exhibition or other documents, such combination being obvious to a person skilled in the art document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 13 April 2005 (13.04.2005) 24 March 2005 (24.03.2005) Authorized officer Name and mailing address of the ISA/AT ENGLISCH M. **Austrian Patent Office** Dresdner Straße 87, A-1200 Vienna Telephone No. +43 / 1 / 534 24 / 565

Facsimile No. +43 / 1 / 534 24 / 535

INTERNATIC AL SEARCH REPORT Information on patent family members

mational application No. T/KR 2004/001147

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
A		none	